

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 December 2003 (11.12.2003)

PCT

(10) International Publication Number
WO 2003/102219 A3

(51) International Patent Classification⁷: **A61K 39/12**

(21) International Application Number:
PCT/US2003/017577

(22) International Filing Date: 4 June 2003 (04.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/386,064 4 June 2002 (04.06.2002) US
60/458,070 27 March 2003 (27.03.2003) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
21 October 2004

(15) Information about Correction:

Previous Correction:

see PCT Gazette No. 14/2004 of 1 April 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: **IMPROVED PSEUDOTYPED RETROVIRUSES**

(57) Abstract: Pseudotyped retroviruses having viral glycoproteins with modified O glycosylation regions are provided. Also pro-
vided are methods for making the pseudotyped retroviruses of the present invention and for using the pseudotyped retroviruses for
transduction of target cells. Cells for stably producing the pseudotyped retroviruses or the present invention are also provided.

WO 2003/102219 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/17577

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 39/12

US CL : 424/199.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/185.1, 199.1, 207.1; 435/320.1; 536/23.4, 23.72

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — A	WO 01/83730 A2 (KOBINGER et al.) 08 November 2001 (08.11.2001) see claims.	1, 3-9, 13, 14, 17-25 — 2, 10-12, 15, 16
X — A	KOBINGER et al. Filovirus-pseudotyped lentiviral vector can efficiently and stably transduce airway epithelia in vivo. Nature Biotechnology. March 2001, Vol. 19, No. 3, pages 225-230.	1, 3-9, 13, 14, 17-25 — 2, 10-12, 15, 16
Y — A	WATSON et al. Targeted transduction patterns in the mouse brain by lentivirus vectors pseudotyped with VSV, Ebola, Mokola, LCMV, or MuLV envelope proteins. Molecular Therapy. May 2002, Vol. 5, No. 1, pages 528-537.	1-9, 13-14, 17-25 — 10-12, 15, 16
X — Y	JOHNSON et al. Pseudotyped human lentiviral vector-mediated gene transfer to airway epithelia in vivo. Gene Therapy. April 2000, Vol. 7, No. 7, pages 568-574.	1, 3, 4, 7, 9, 14 — 2, 8, 13, 17-25



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

29 July 2004 (29.07.2004)

Date of mailing of the international search report

02 SEP 2004

Name and mailing address of the ISA/US

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Form PCT/ISA/210 (second sheet) (July 1998)

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PCT/US03/17577

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P — Y, P	JEFFERS et al. Covalent modifications of the ebola virus glycoprotein. Journal of Virology. December 2002, Vol. 76, No. 24, pages 12463-12472.	1-3, 5-25 ----- 4
X, P	SINN et al. Lentivirus vectors pseudotyped with filoviral envelope glycoproteins transduce airway epithelia from the apical surface independently of folate receptor alpha. Journal of Virology, May 2003, Vol. 77, No. 10, pages 5902-5910.	1, 3-10, 13, 14, 17-25

INTERNATIONAL SEARCH REPORT

PCT/US03/17577

Continuation of B. FIELDS SEARCHED Item 3:

WEST, DERWENT, STN-BIOSIS, MEDLINE, EMBASE, STIC-Sequence search

inventor search, lentivirus, retrovirus, filovirus, Ebola, gene transfer, glycosylation, SEQ ID NO:1